

FIG. 1

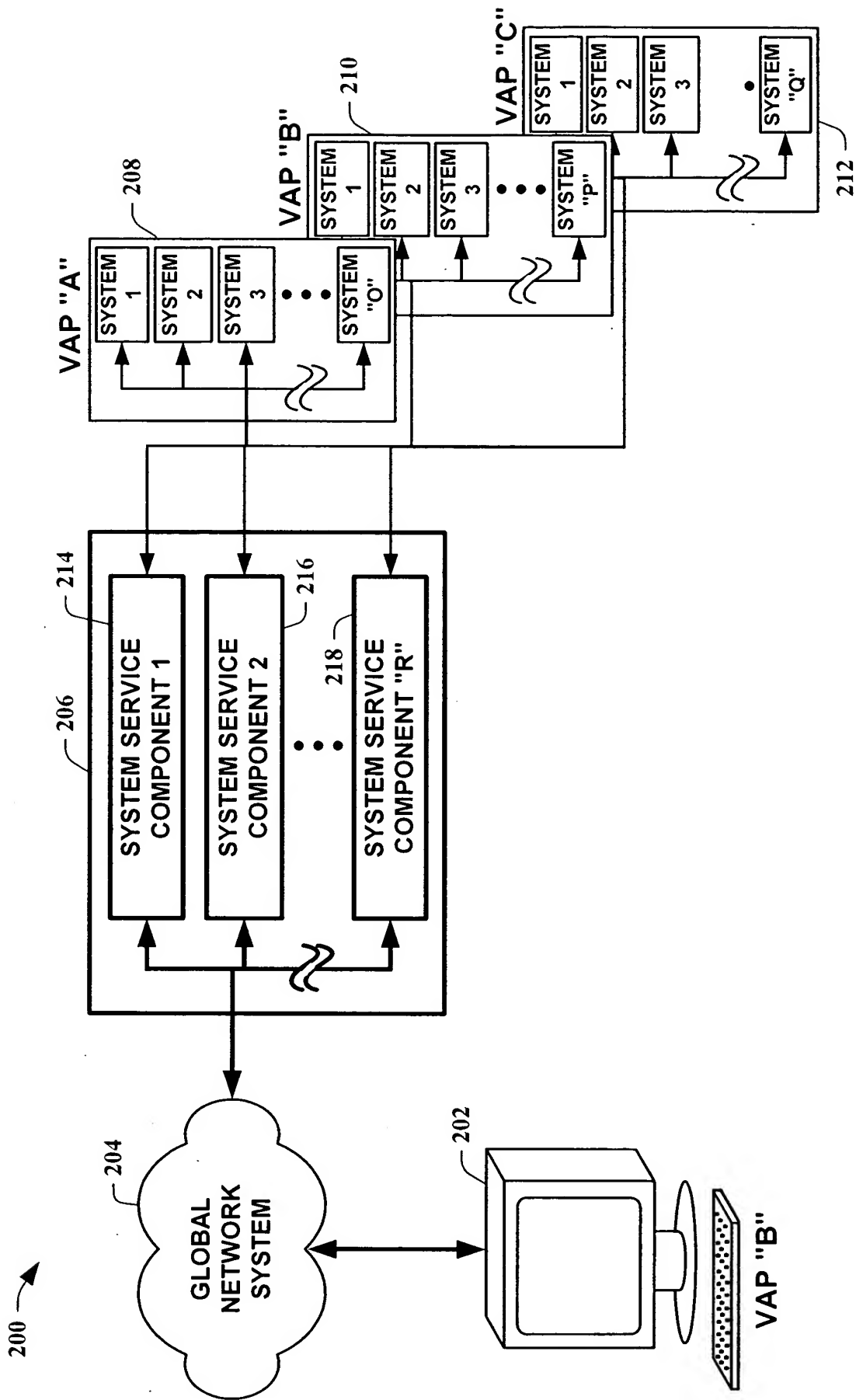


FIG. 2

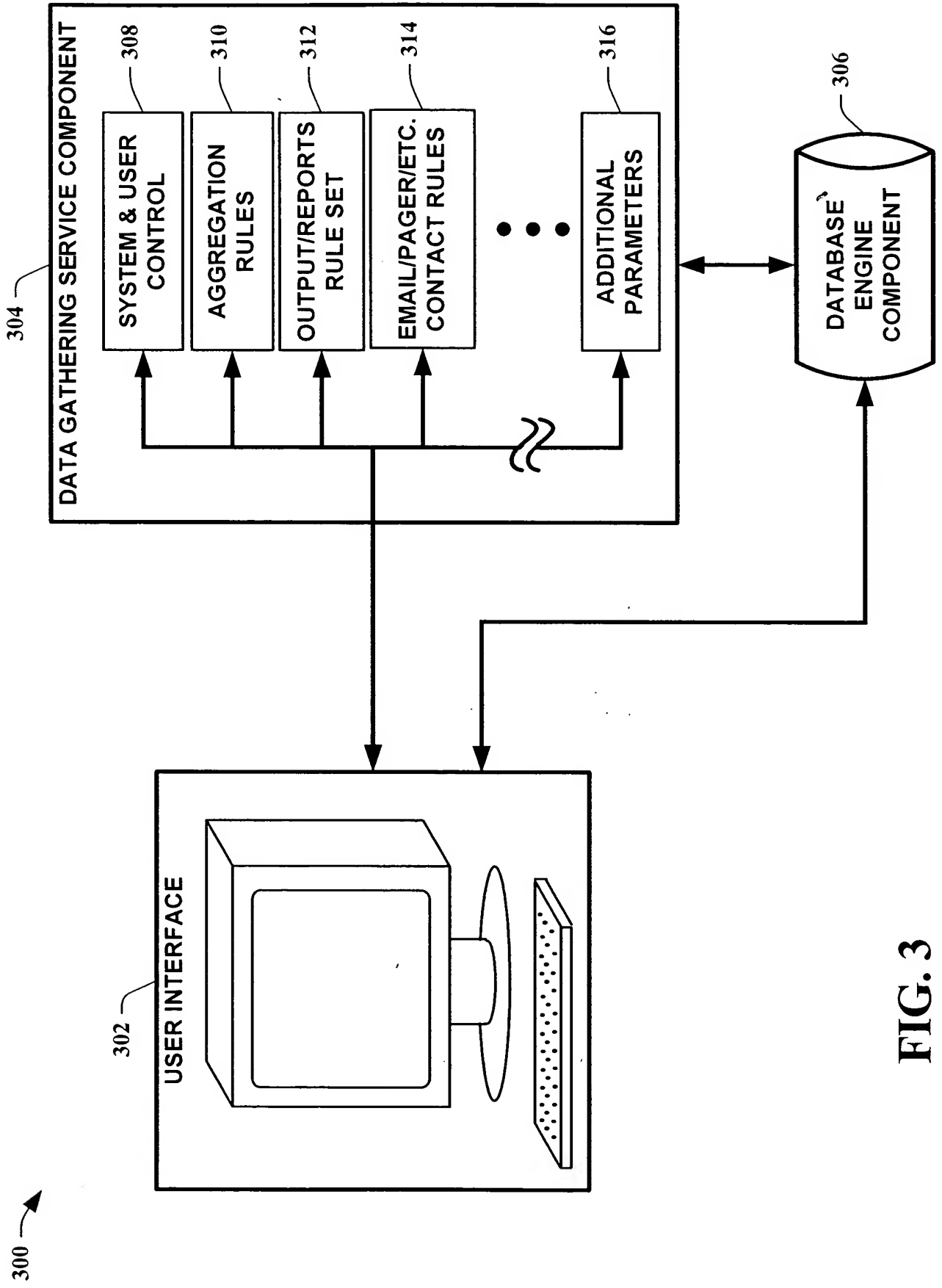


FIG. 3

400 →

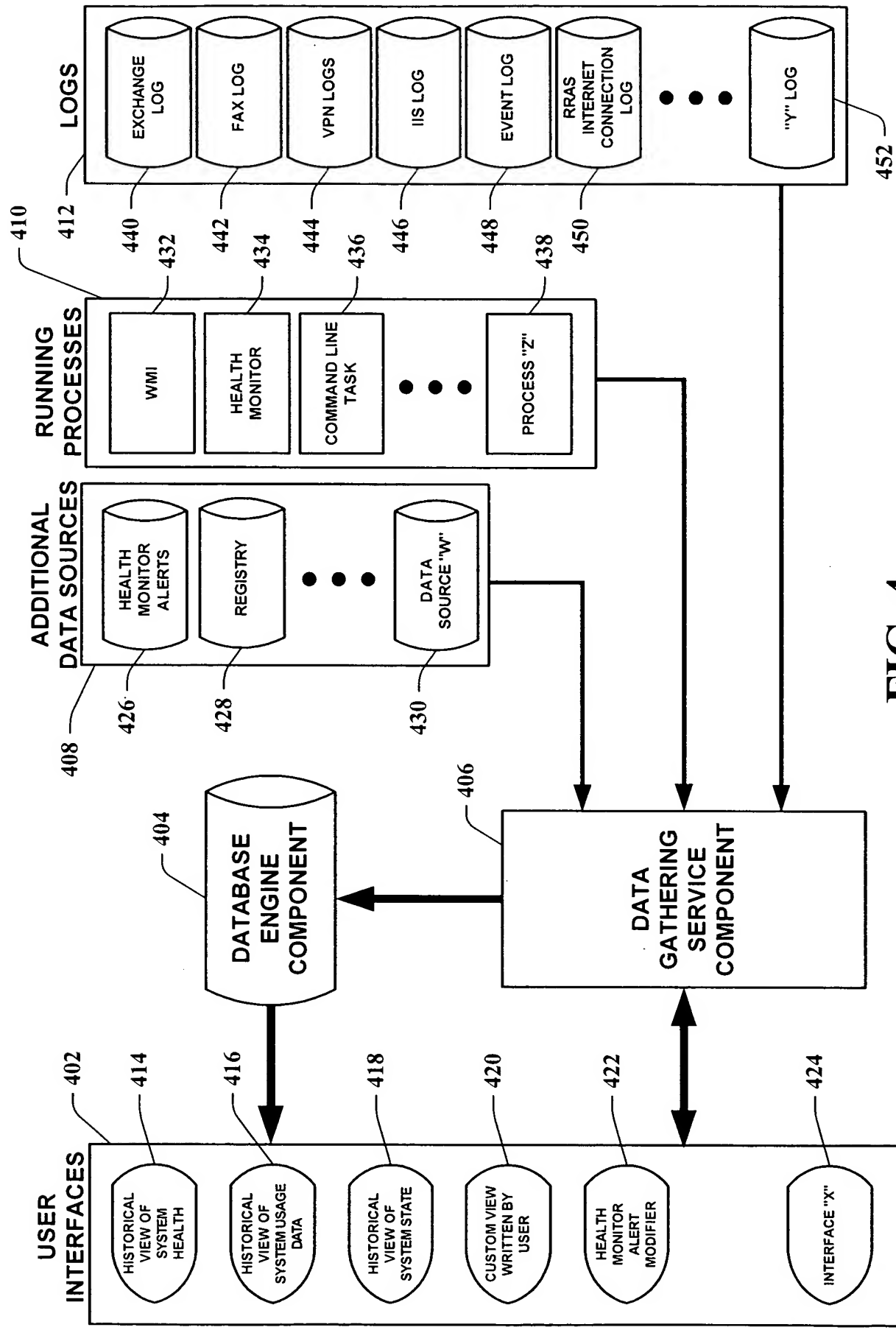


FIG. 4

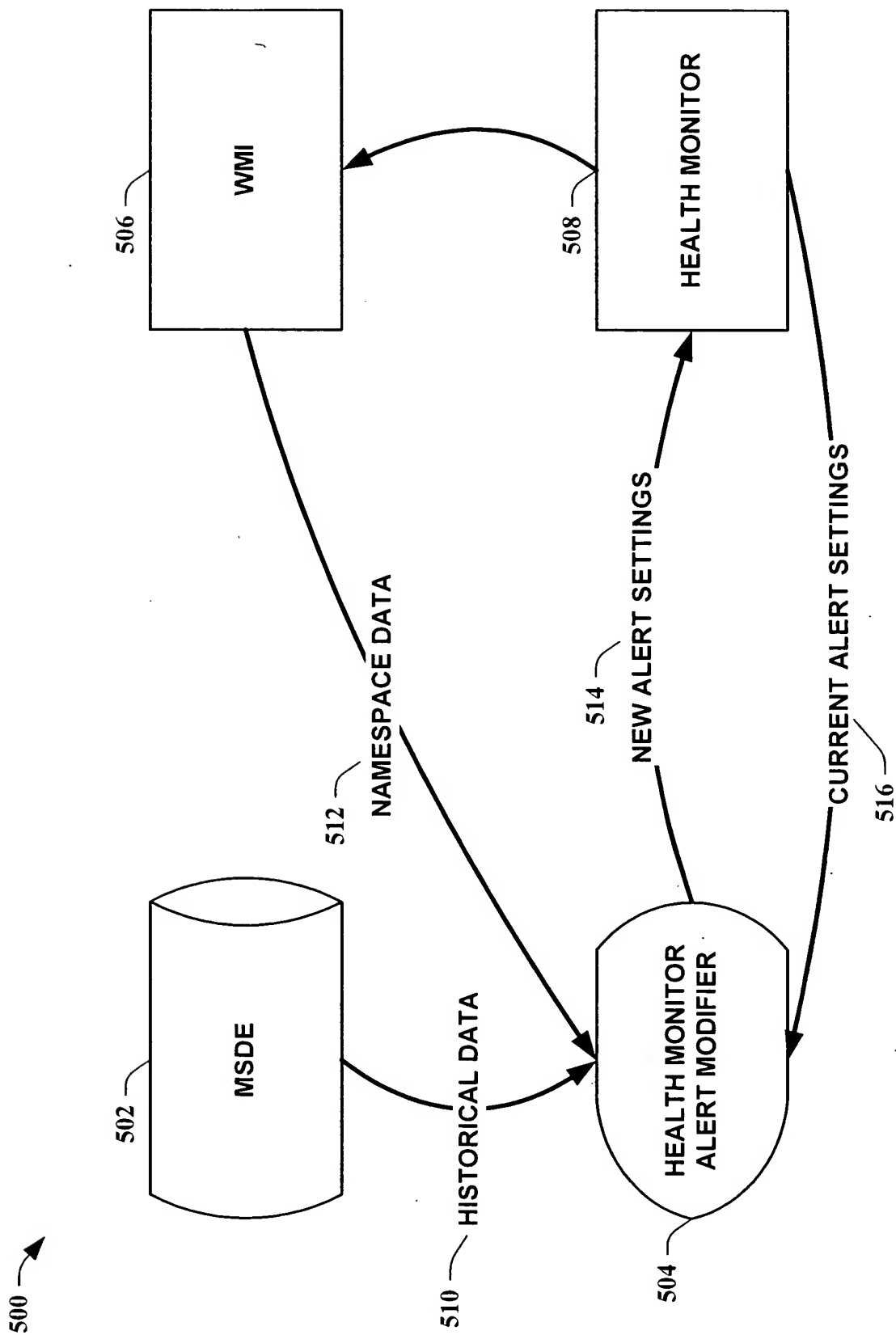


FIG. 5

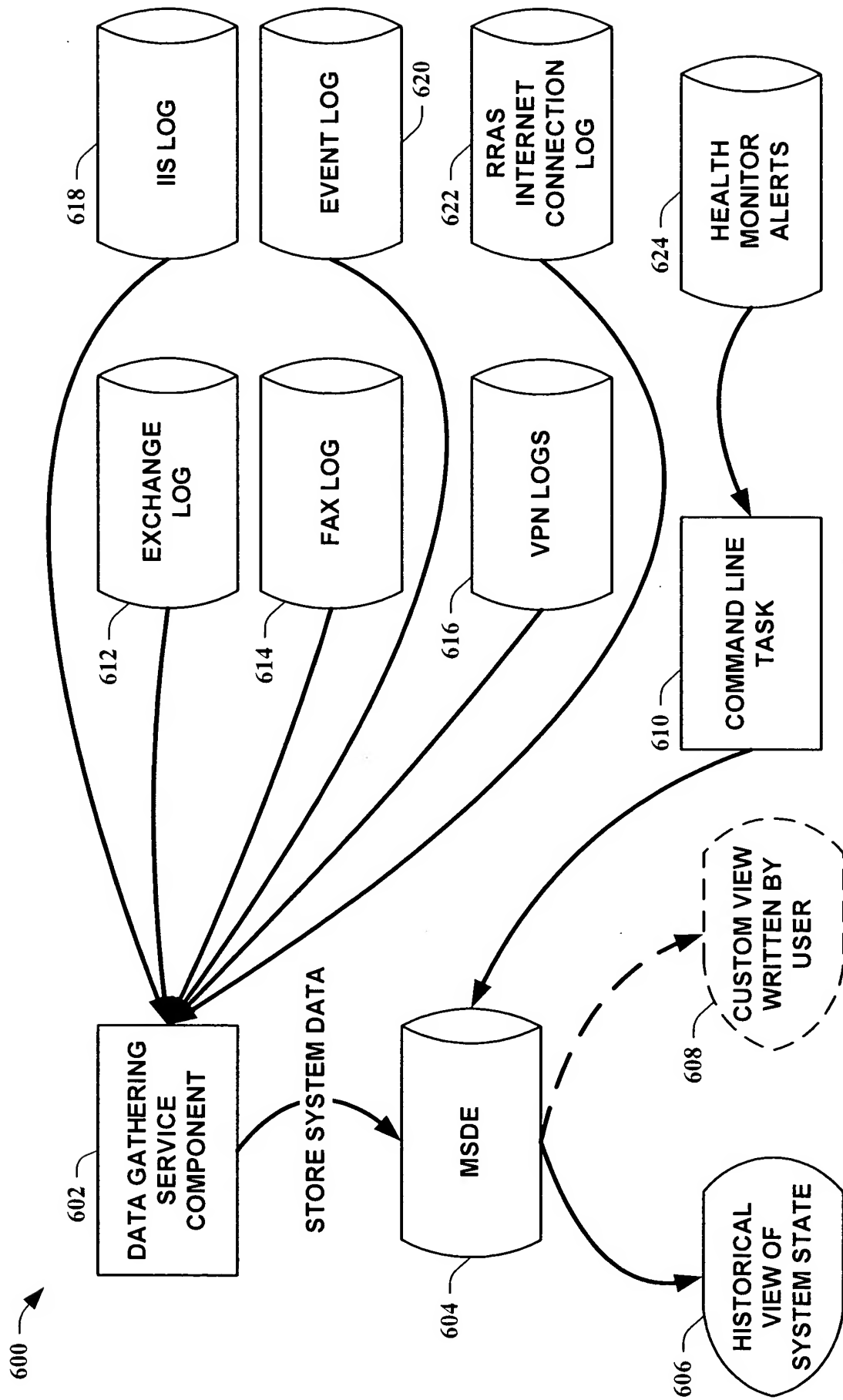
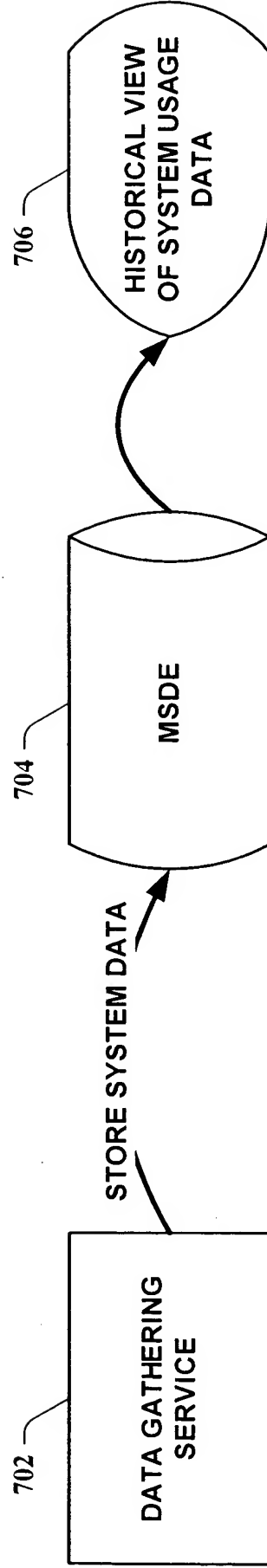


FIG. 6

700 →



**FIG. 7**

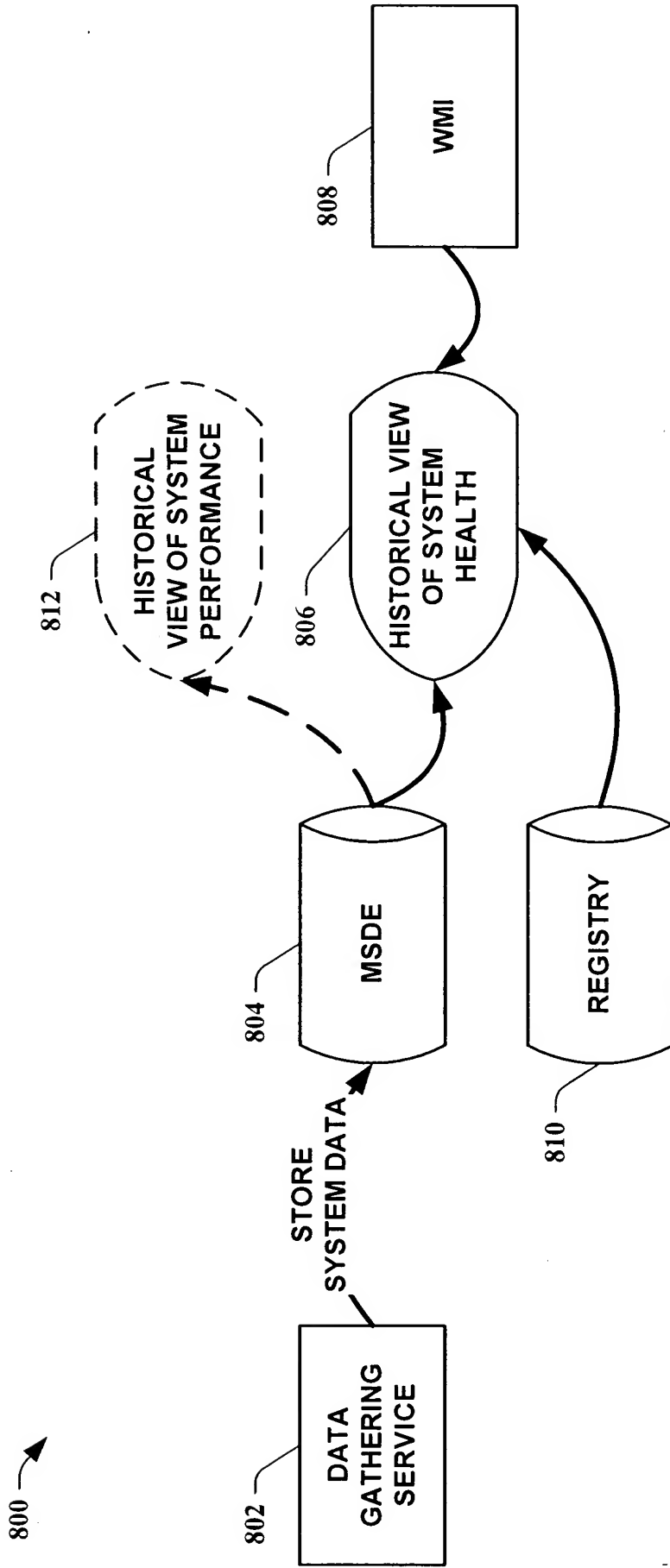
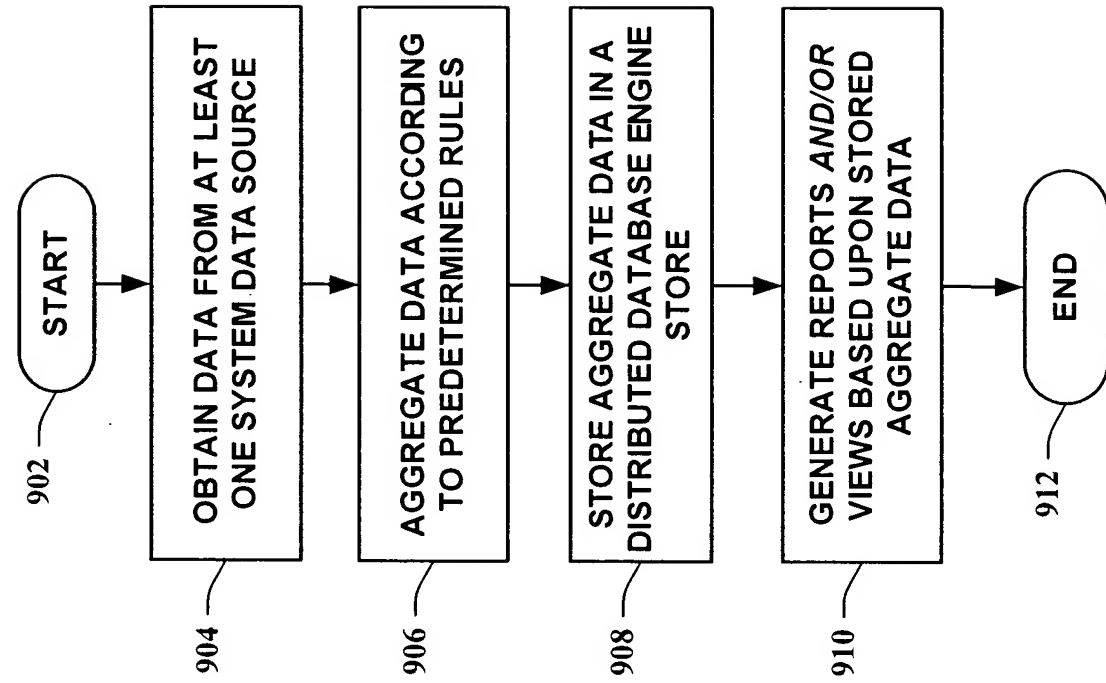


FIG. 8





**FIG. 9**

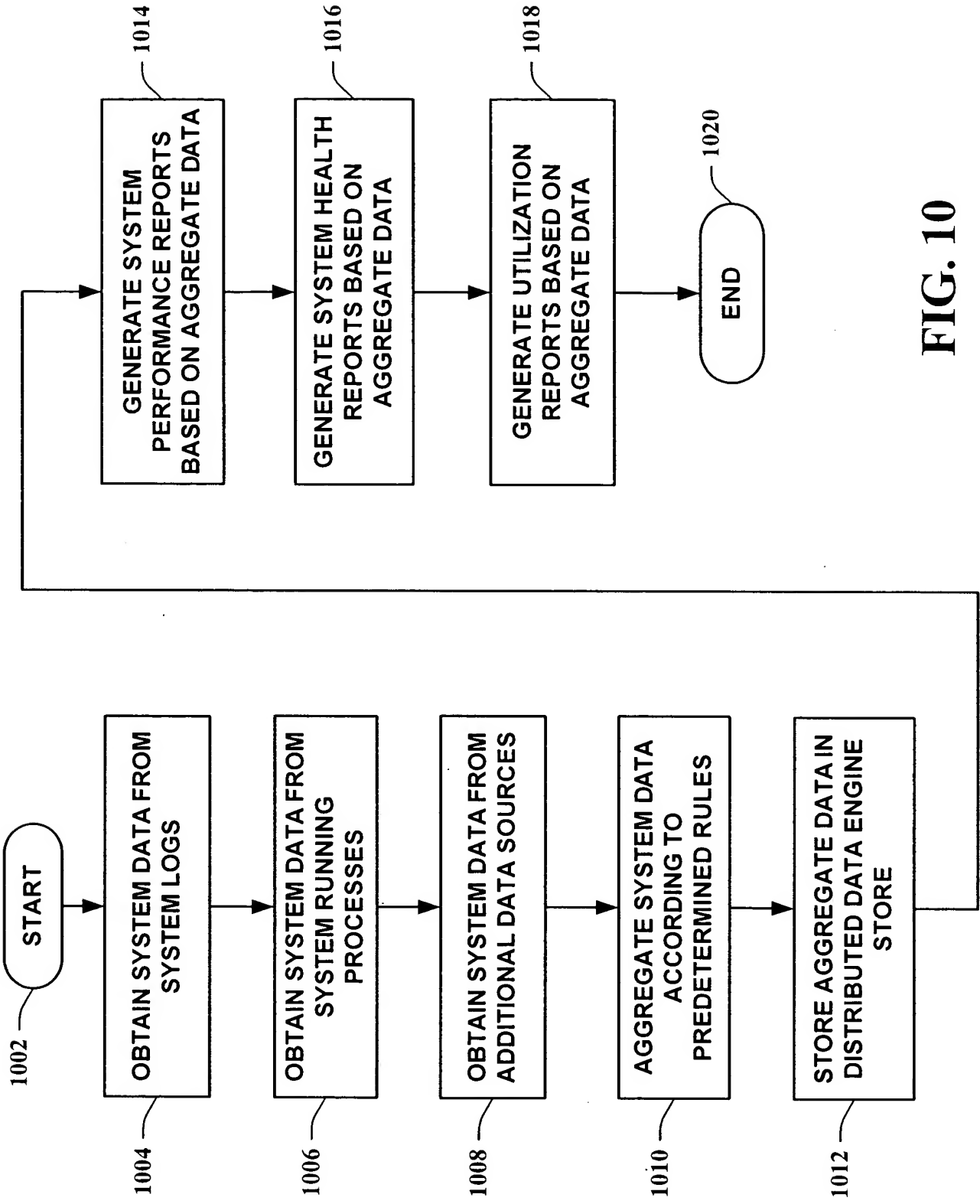


FIG. 10

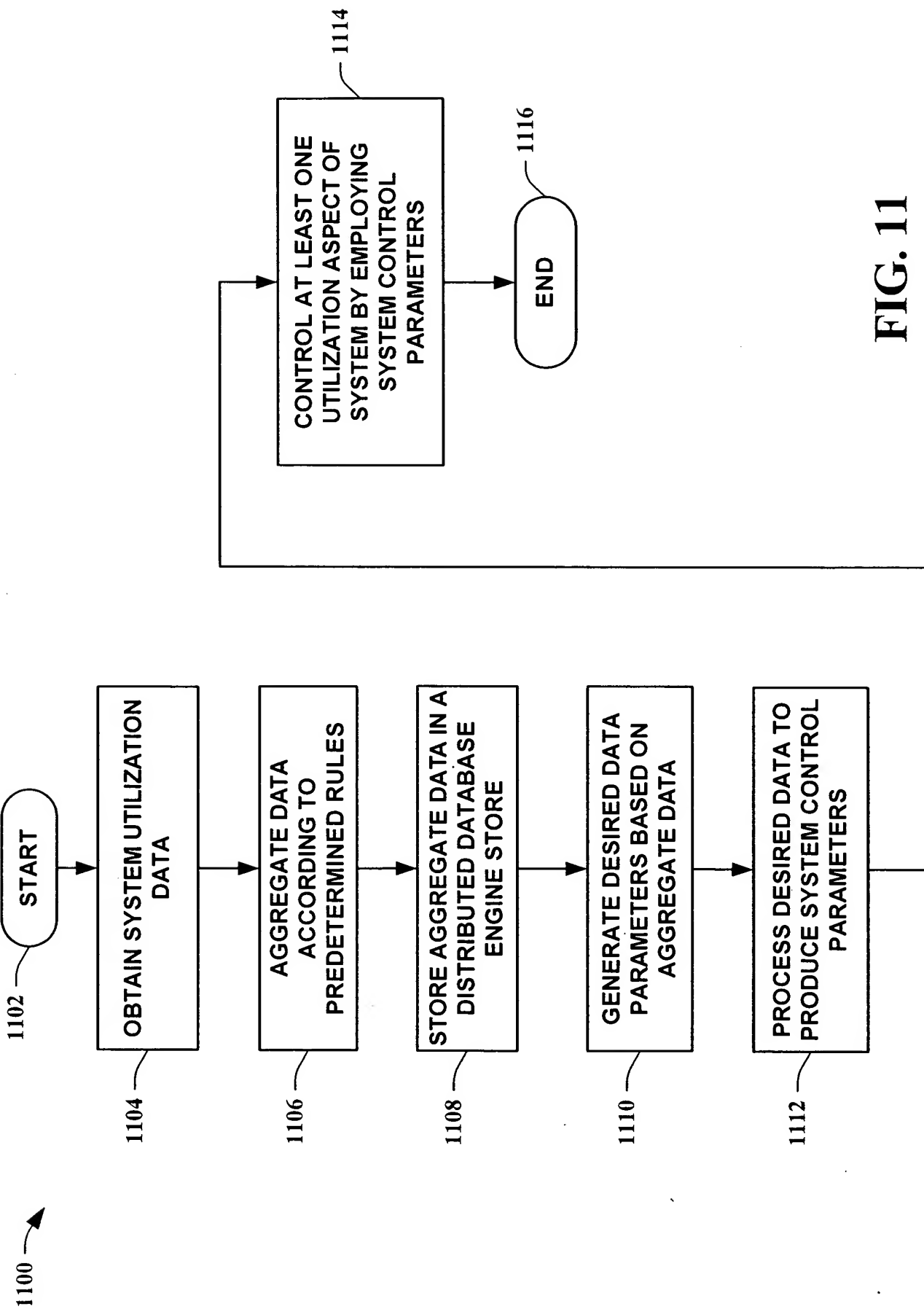


FIG. 11

1200 →

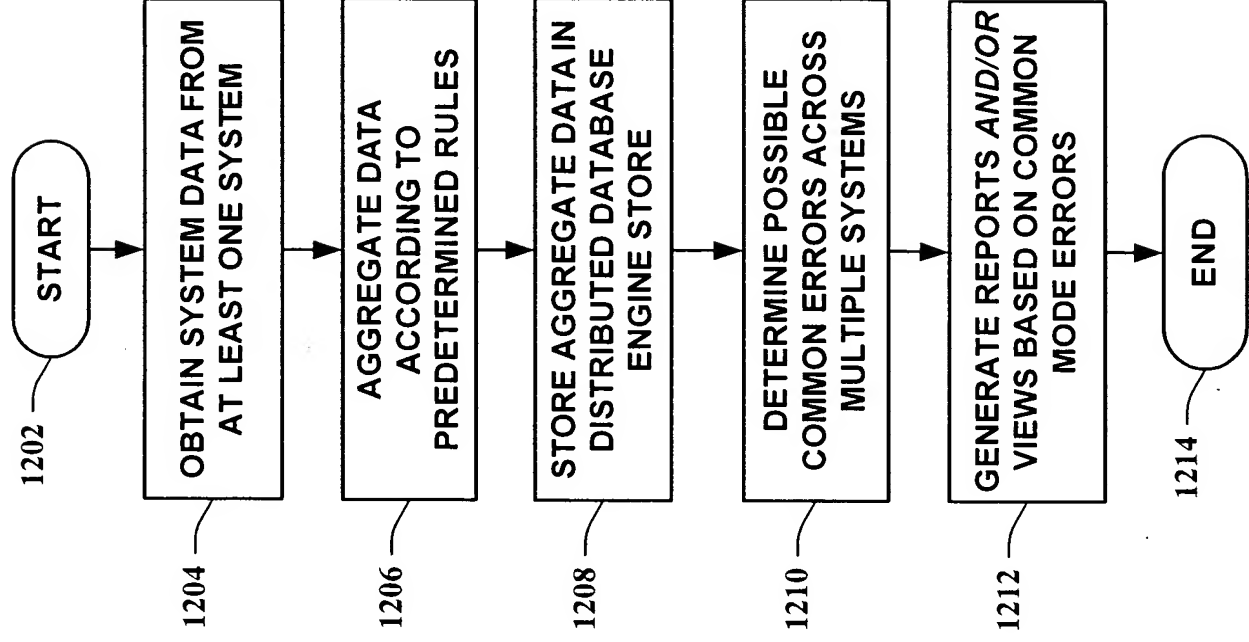


FIG. 12

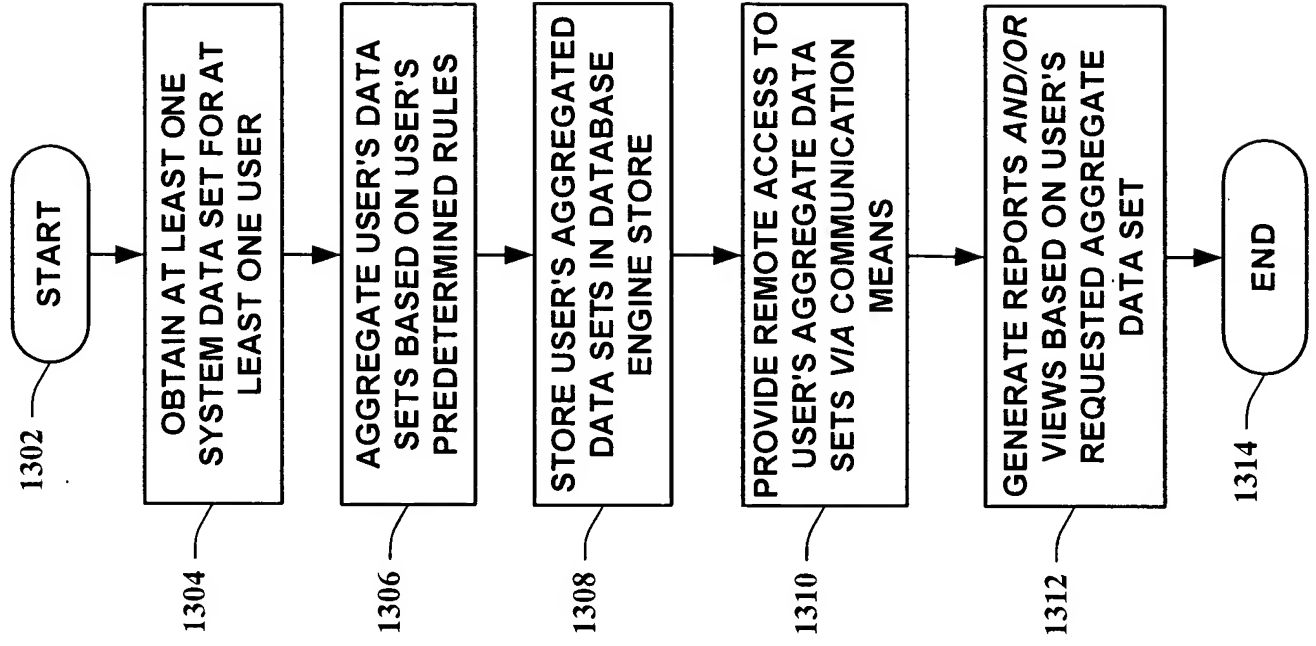


FIG. 13

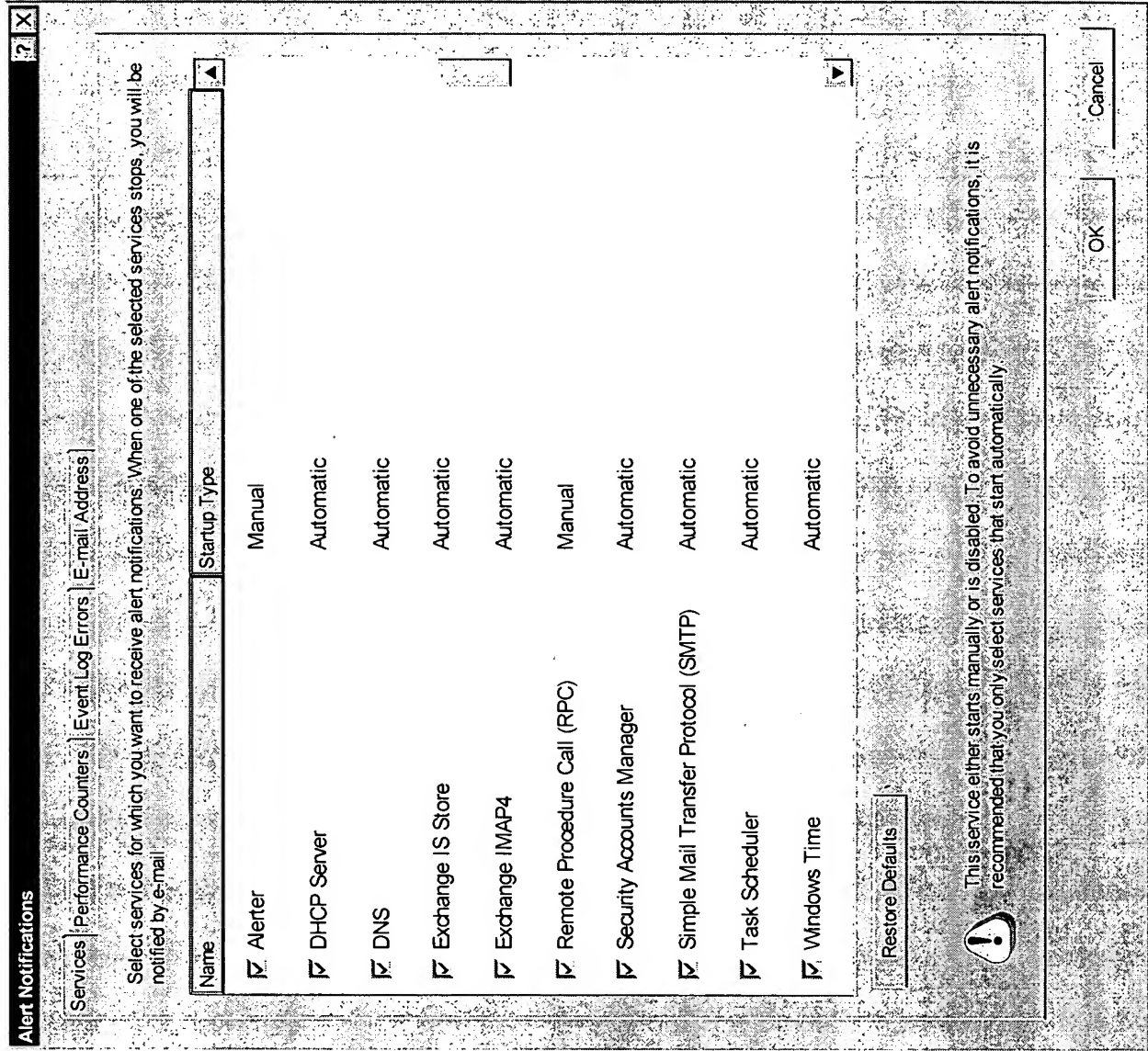


FIG. 14

Alert Notifications

Services

Performance Counters

Event Log Errors

E-mail Address

Select the performance counters for which you want to receive alert notifications. When one of the selected performance counters exceeds its threshold, you will be notified by e-mail. To change the threshold, click Edit.

Name	Threshold	Counter Average
<input checked="" type="checkbox"/> Free Memory	Less than 20 MB	57
<input checked="" type="checkbox"/> Free Disk Space	Less than 20 MB	5713
<input checked="" type="checkbox"/> Free Disk Time	Less than 30 %	47
<input checked="" type="checkbox"/> Exchange Send Queue	Greater than 100	15
<input checked="" type="checkbox"/> Exchange Receive Queue	Greater than 100	15

Restore Defaults

Edit...

OK

Cancel

FIG. 15

**Edit Threshold** [?] [X]

Threshold: Free Memory

Currently set to: Less than 20MB

30-day counter average: 18.5

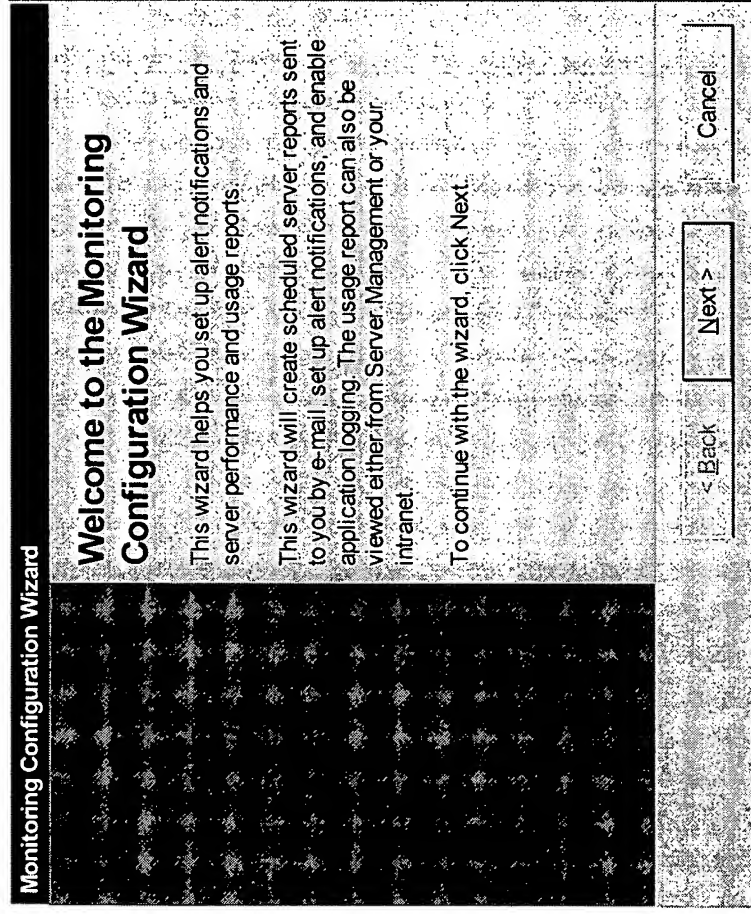
Change threshold to:

18

OK Cancel

**FIG. 16**





**FIG. 17**

Monitoring Configuration Wizard  
Configuration Mode

Specify whether you want to modify the existing settings or reinstall the monitoring features.

☒ Modify existing settings  
Select this option if you want to add, remove, or modify monitoring features.

☐ Reinstall monitoring features  
Select this option to reinstall the monitoring features if they are not working correctly. If you reinstall monitoring features, any previously stored monitoring data will be deleted.

More Information

< Back

Next >

Cancel

FIG. 18

Monitoring Configuration Wizard

Reporting Options

You can specify how you would like to view or receive reports.

After you complete the wizard, performance report data will appear in the Server Management console.

Performance Report

☐ Receive a daily performance report in e-mail

This report contains status information about services, performance counters, and alerts.

Usage Report

☐ View the usage report in Server Management

This report contains information about your users' Internet, e-mail and fax usage, as well as remote connectivity.

☐ Receive a usage report in e-mail every other week

More Information

< Back

Next >

Cancel

FIG. 19

**Monitoring Configuration Wizard**

**E-mail Options**

You can specify where you would like to receive the reports.

**E-mail address:**

To enter multiple addresses, use a semicolon.

**FIG. 20**

Monitoring Configuration Wizard

Business Owner Usage Report

You can specify if you want your business owners to view a usage report on their intranet.

All users:

Name

Joe

De

Do

Add

Remove

Owner or authorized users:

Name

Domain Admins

More Information

< Back

Next >

Cancel

FIG. 21

**Monitoring Configuration Wizard**

**Alerts**

You can specify if you want to receive immediate notification for performance alerts.

☐ **S**end me notification of performance alerts by e-mail

Alerts include low disk space, running services that have stopped, and other performance thresholds. Every time an alert is triggered, an e-mail will be sent.

E-mail address:

To enter multiple addresses, use a semicolon.

☐ **M**ore information

< Back> Next> Cancel

FIG. 22

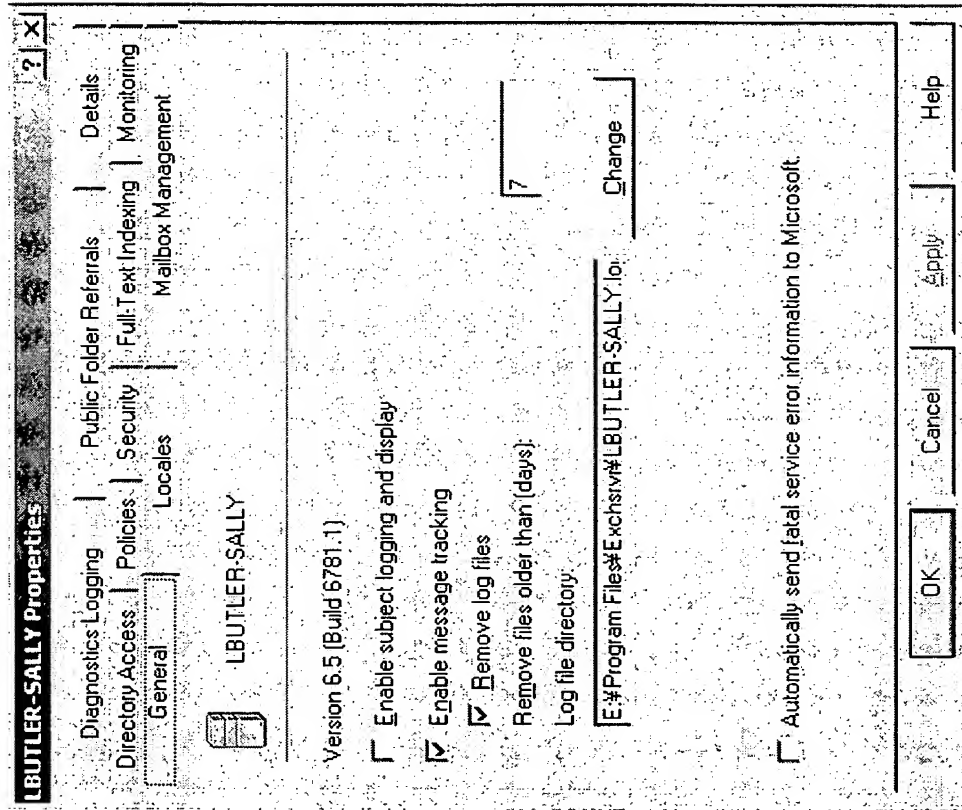
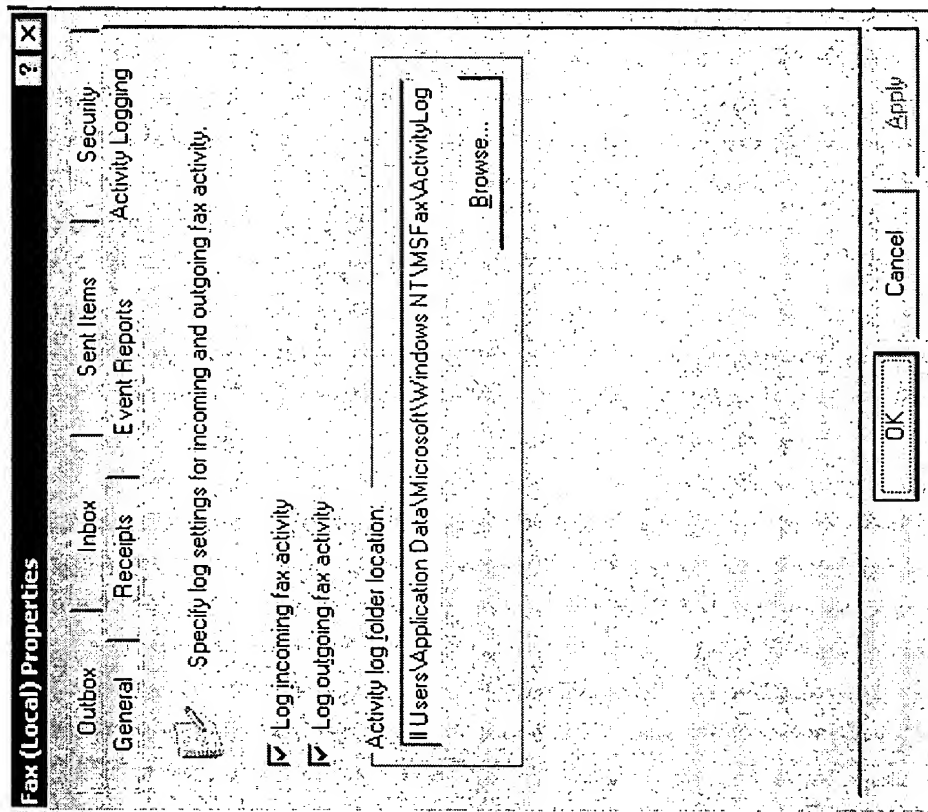


FIG. 23





**FIG. 24**



**Default Web Site Properties** ? X

Documents | Directory Security | HTTP Headers | Custom Errors  
 Web Site | Performance | ISAPI Filters | Home Directory

Web site identification

Description: **Default Web Site**

IP address: (All Unassigned) **Advanced...**

ICP port: 80 SSL port:

Connections

Connection timeout: 120 seconds

☒ Enable HTTP Keep-Alive

☒ Enable logging

Active log format: **W3C Extended Log File Format** **Properties...**

OK Cancel Apply Help

**FIG. 25**

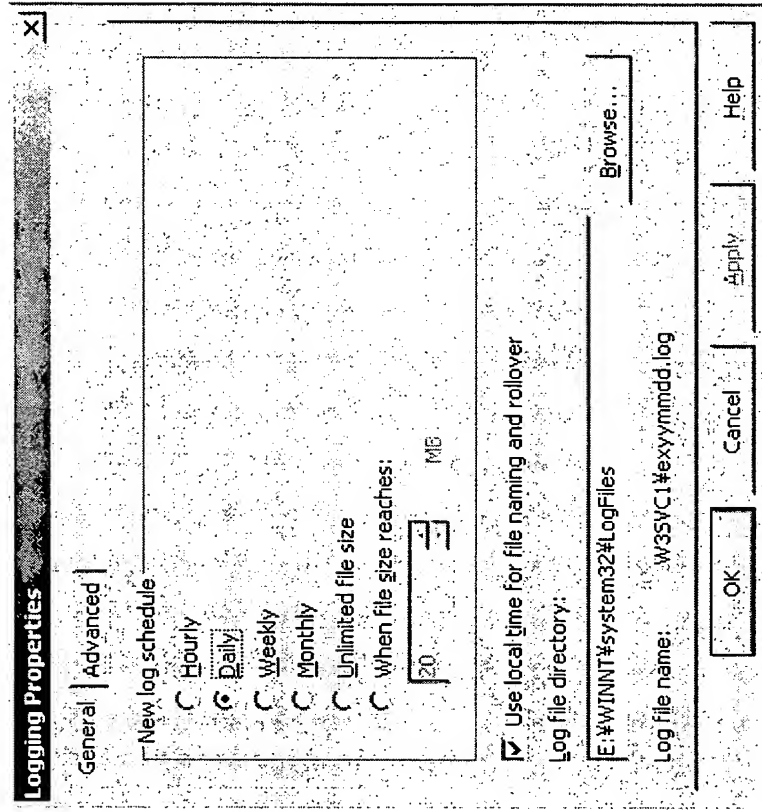


FIG. 26

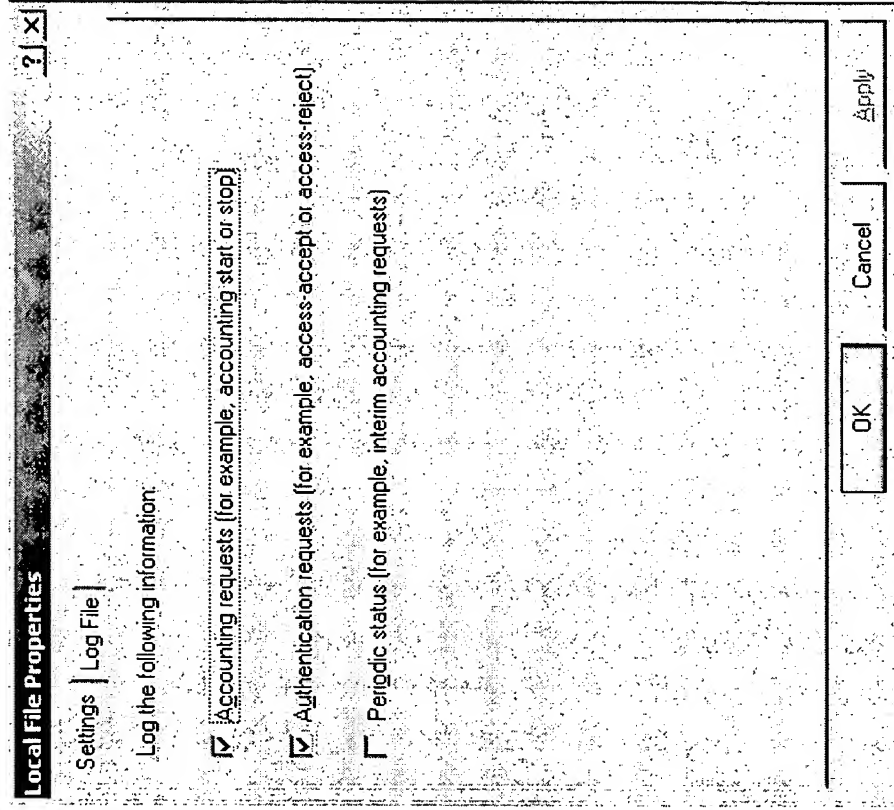


FIG. 27

**Local File Properties** ? X

Settings: Log File

Name: INyyymmdd.log

Directory: E:\WINNT\system32\LogFiles Browse...

Format:

- ☒ IAS
- ☐ Database-compatible

Create a new log file:

- ☒ Daily
- ☐ Weekly
- ☐ Monthly
- ☐ Never (unlimited file size)
- ☐ When log file reaches this size: 10 MB

☒ When disk is full delete older log files

OK Cancel Apply

**FIG. 28**

Database User Properties - oemthomasso002d#SBS Report Users

General

Login name: oemthomasso002d#SBS Permissions...

User name: oemthomasso002d#SBS

Database role membership:

Permit in Database Role
<input type="checkbox"/> db_accessadmin
<input type="checkbox"/> db_securityadmin
<input type="checkbox"/> db_ddladmin
<input type="checkbox"/> db_backupoperator
<input checked="" type="checkbox"/> db_datareader
<input type="checkbox"/> db_datawriter
<input type="checkbox"/> db_denydatareader
<input type="checkbox"/> db_denydatawriter
<input checked="" type="checkbox"/> mon_settings_rwi

Properties...

OK Cancel Apply Help

FIG. 29

Database Role Properties - SBSMonitoring

Permissions

Database role: mon\_settings\_rwl

List all objects

List only objects with permissions for this role

Object	Owner	SELECT	INSERT	UPDATE	DELETE	EXEC	DRI
AdminSettings	dbo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Admins	dbo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ReportSettings	dbo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Settings	dbo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
get_setting	dbo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
update_setting	dbo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
xp_alertlog_messages	dbo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
xp_eventlog_messages	dbo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Columns...

OK

Cancel

Apply

Help

FIG. 30

### Create Your Small Business Server Activity Report

☒ Show basic activity report (Web and e-mail)
 ☐ Show detailed activity report (Web, e-mail, remote connections and fax)

Time Range

From: 10/28/2002

To: 11/11/2002

Create Report

**FIG. 31**

**E-mail Sent**

User Name	Internal E-mail	MB	External E-mail	MB	Total E-mail Sent	MB
Derick Namgreb	150	3	150	16.2	300	19.2
John Howard	60	42.4	18	455.6	78	498
Company Total	210	45.4	168	471.8	378	517.2

**E-mail Received**

User Name	Internal E-mail	MB	External E-mail	MB	Total E-mail Received	MB
Derick Namgreb	25	3	75	16.2	100	19.2
John Howard	30	42.4	48	455.6	78	498
Company Total	55	45.4	123	471.8	178	517.2

**Mailbox Size**

User Name	Starting Size (MB)	Ending Size (MB)	Rate of Change
Derick Namgreb	25	75	200%
John Howard	30	48	60%
Company Total	55	123	124%

**FIG. 32**



Faxes Sent

To	Total Faxes	Average Size (Pages)	Average Time	Average Faxes Sent per Day
425.457.7771	32	2.3	00:01:34	1.1
425.452.2323	24	4.6	00:02:54	0.8
Company Total	56	3.4	00:02:01	1.9

Faxes Received

From	Total Faxes	Average Size (Pages)	Average Time	Average Faxes Received per Day
425.457.7771	32	2.3	00:01:34	1.1
425.452.2323	24	4.6	00:02:54	0.8
Company Total	56	3.4	00:02:01	1.9

Faxes Sent by User

To	Total Faxes	Average Size (Pages)	Average Time	Average Faxes Sent per Day
Sally Worker	32	2.3	00:01:34	1.1
Mary PowerUser	24	4.6	00:02:54	0.8
Company Total	56	3.4	00:02:01	1.9

Fax Traffic by Hour

Hour	Total Faxes	Average Faxes per Day
8:00 AM - 9:00 AM	5	0.2
9:00 AM - 10:00 AM	10	0.3
10:00 AM - 11:00 AM	10	0.3
11:00 AM - 12:00 PM	1	0.1
12:00 PM - 1:00 PM	20	0.7
1:00 PM - 2:00 PM	0	0.0
2:00 PM - 3:00 PM	0	0.0
3:00 PM - 4:00 PM	10	0.3
4:00 PM - 5:00 PM	0	0.0
Total from 8:00 AM - 5:00 PM	56	1.8

FIG. 33

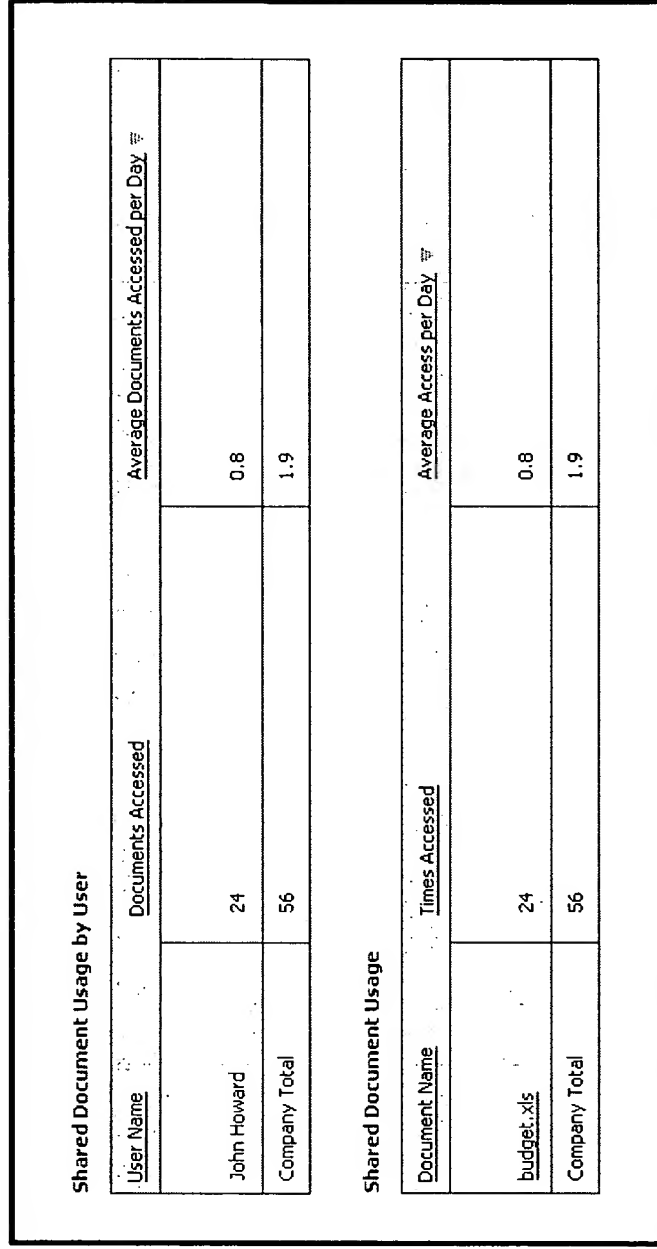


FIG. 34

3500 →

**Web Activity by Computer**

Computer Name	Total Active Hours	Average Active Hours per Day
Computer 01	300	10
Computer 02	155	5.2
Company Total	455	15.2

**Web Traffic by Hour**

Hour	Total Connections	Average Connections per Day
8:00 AM - 9:00 AM	200	6.7
9:00 AM - 10:00 AM	100	3.3
10:00 AM - 11:00 AM	50	1.7
11:00 AM - 12:00 PM	1	0.1
12:00 PM - 1:00 PM	100	3.3
1:00 PM - 2:00 PM	1	0.1
2:00 PM - 3:00 PM	1	0.1
3:00 PM - 4:00 PM	1	0.1
4:00 PM - 5:00 PM	1	0.1
Total from 8:00 AM - 5:00 PM	455	15.2

**FIG. 35**

3600 →

### Outlook Web Access Activity by User

User Name	Visits	Average Visits per Day
Derrick Namgreb	30	1
John Howard	15	0.5
Company Total	45	1.5

### Outlook Web Access Usage by Hour

Hour	Total Visits	Average Visits per Day
8:00 AM - 9:00 AM	20	0.6
9:00 AM - 10:00 AM	10	0.3
10:00 AM - 11:00 AM	0	0
11:00 AM - 12:00 PM	0	0
12:00 PM - 1:00 PM	0	0
1:00 PM - 2:00 PM	0	0
2:00 PM - 3:00 PM	0	0
3:00 PM - 4:00 PM	0	0
4:00 PM - 5:00 PM	15	0.5
Total from 8:00 AM - 5:00 PM	45	1.5

FIG. 36

**Remote Connection Activity by User**

User Name	Total Connections	Average Time	Average Connections per Day
Alan Billharz	3	02:34:56	0.2
Alex Hinrichs	2	00:01:22	0.1
Alp Onalan	2	00:07:49	0.1
Charles Anthe	4	00:05:17	0.3
Company Total	56	00:19:13	3.7

**Remote Connection Activity by Hour**

Hour	Total Connections	Average Connections per Day
8:00 AM - 9:00 AM	20	0.6
9:00 AM - 10:00 AM	10	0.3
10:00 AM - 11:00 AM	0	0
11:00 AM - 12:00 PM	0	0
12:00 PM - 1:00 PM	0	0
1:00 PM - 2:00 PM	0	0
2:00 PM - 3:00 PM	0	0
3:00 PM - 4:00 PM	0	0
4:00 PM - 5:00 PM	15	0.5
Total from 8:00 AM - 5:00 PM	45	1.5

**FIG. 37**

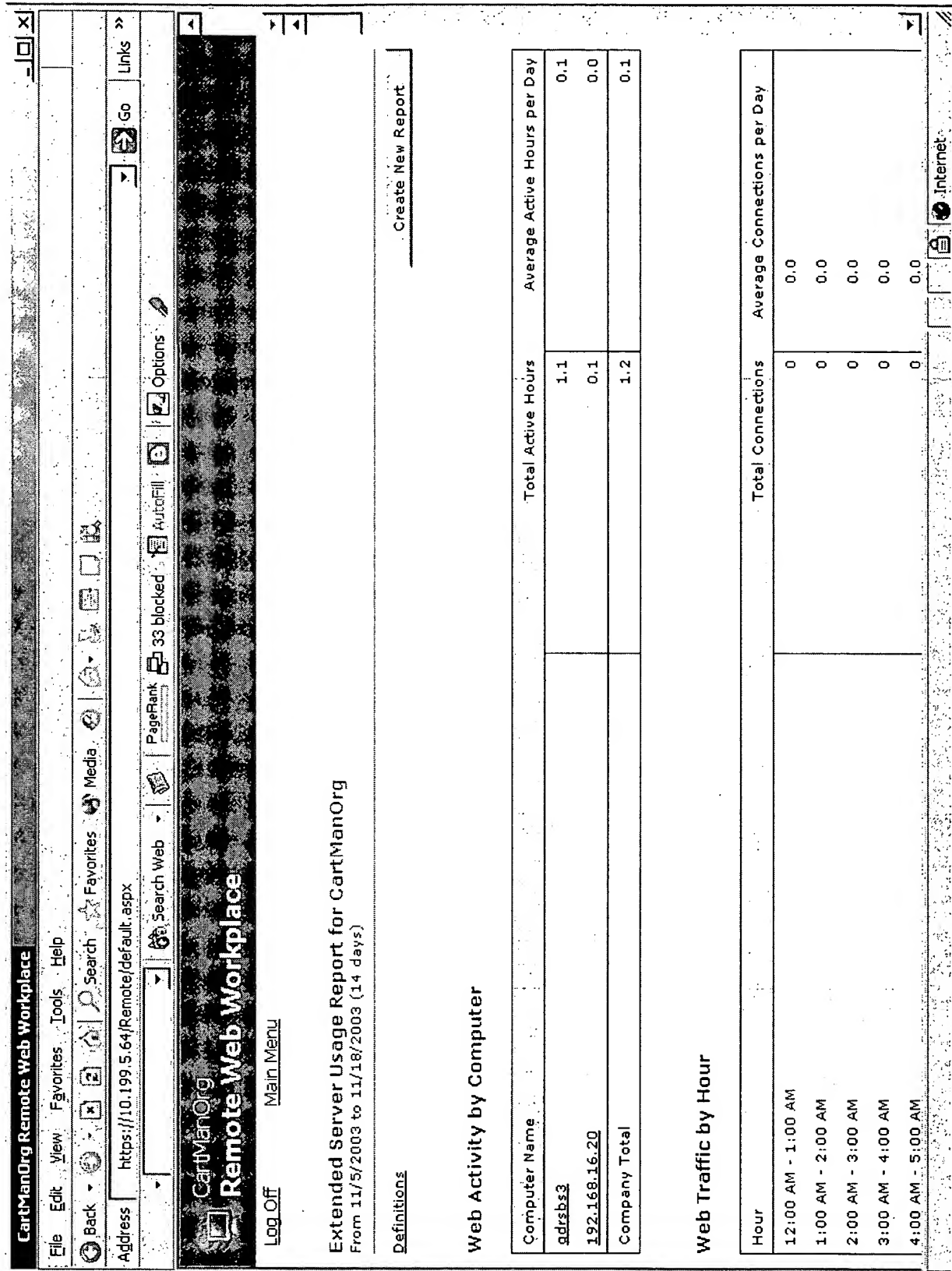


FIG. 38

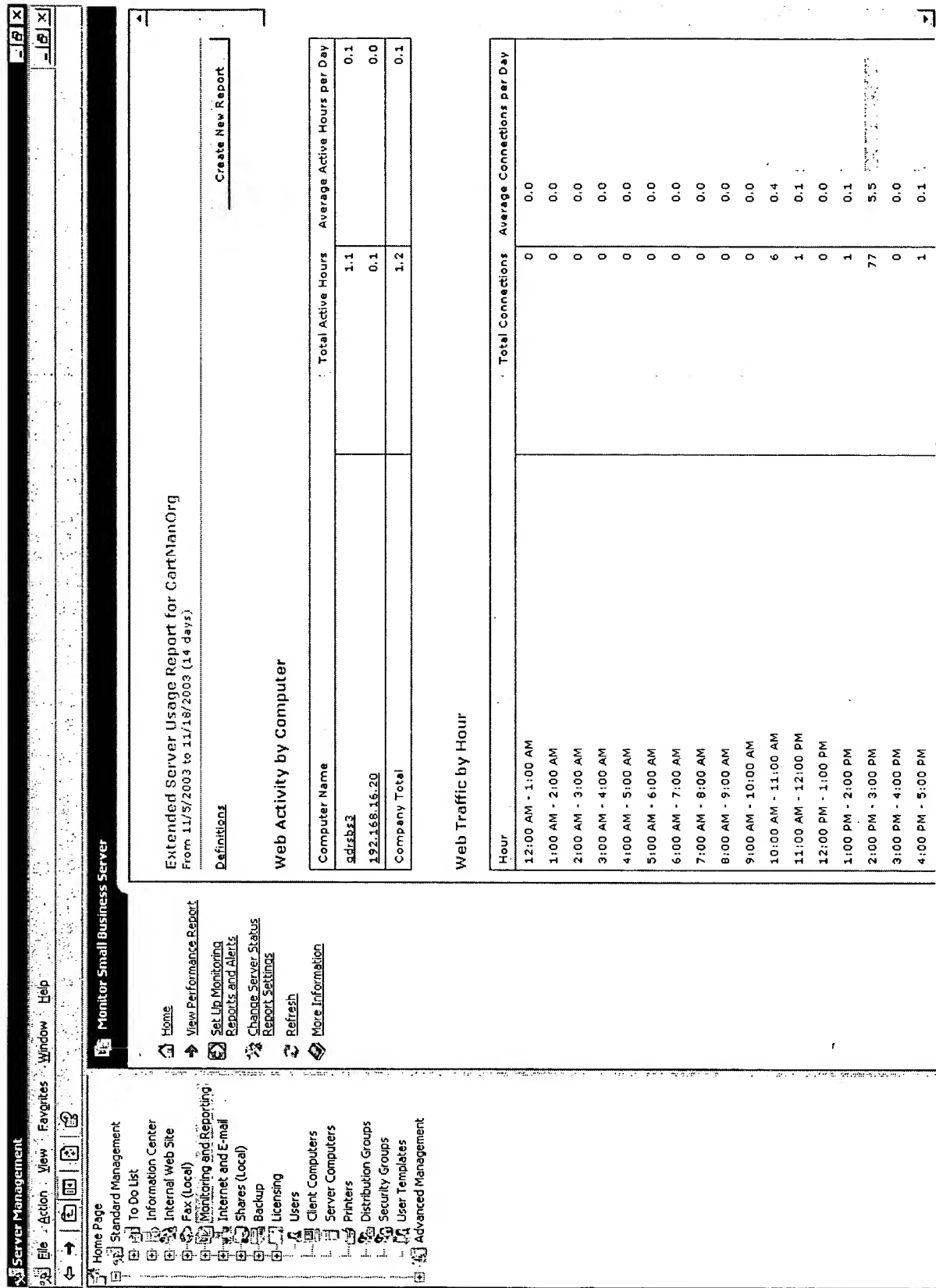


FIG. 39

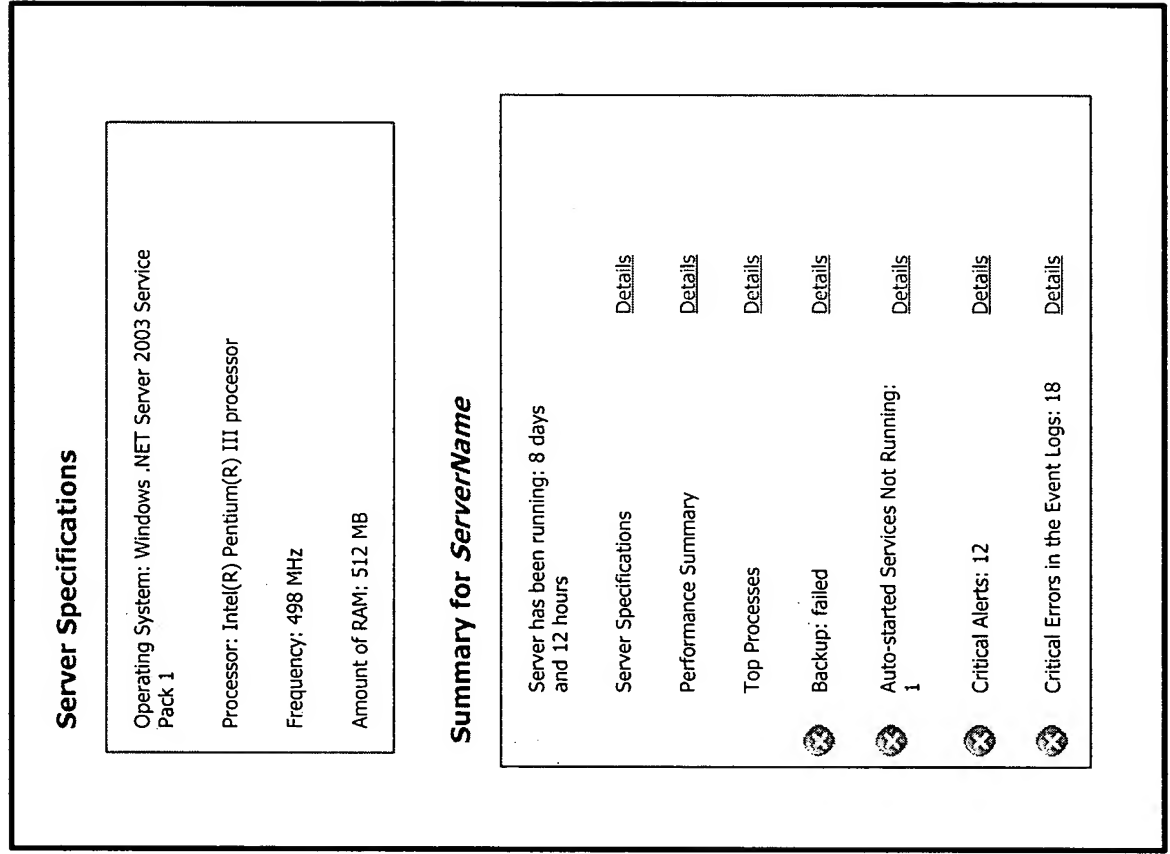


FIG. 40



Performance Summary			
Performance Counters	Today	Last Month	Rate of Growth
Memory in use	220 MB	210 MB	2%
Free disk space (C:)	1,262 MB	1,262 MB	4%
Free disk space (D:)	26,999 MB	26,999 MB	3%
Free disk space (E:)	15,000 MB	15,000 MB	2%
Busy disk time (0 C: D: E:)	45%	45%	20%
CPU use (0)	22%	11%	100%

FIG. 41

**Top 5 Processes by Memory Usage**

Process Name - ID	Memory Usage
lsass - 528	225 MB
STORE - 2664	178 MB
sqlservr - 2080	88 MB
inetinfo - 1608	70 MB
services - 516	41 MB

**Top 5 Processes by CPU Usage**

Process Name - ID	CPU Time
lsass - 528	16.0 %
STORE - 2664	12.7 %
sqlservr - 2080	6.3 %
inetinfo - 1608	5.0 %
services - 516	2.9 %

**FIG. 42**

Auto-started Services Not Running	
Service Name	
Microsoft Exchange IMAP4	
Microsoft Exchange Information Store	
Microsoft Exchange MTA Stacks	
Microsoft Exchange POP3	
Microsoft Exchange Routing Engine	
<p>● Total auto-started services not running: 5</p> <p>In normal conditions, these services should be running. For details, it is recommended that you review errors in the Event log related to the service.</p>	

**FIG. 43**

**Critical Alerts**

Issue	Last Occurrence	Total Occurrences
❖ Low Memory	6/16/2002, 05:59 AM	5
Low available memory may significantly decrease server performance and prevent applications from running properly.		
Recommended State At least 20 MB Current State 5.7 MB		

Issue	Last Occurrence	Total Occurrences
❖ Low Free Disk space	6/16/2002, 02:59 AM	3
Low free disk space may significantly decrease server performance and prevent applications from running properly.		
Recommended State At least 20 MB Current State 5.7 MB		

**Critical Errors in Application Log**

Source	Event ID	Last Occurrence	Total Occurrences
❖ Microsoft Fax	32012	6/16/2002, 02:59 AM	79 *
The attempt to send the fax failed. There was no answer. This fax will not be sent, because the maximum number of retries has been exhausted. Sender: name: Billing code: password. Sender company: company. Sender dept: Department. Recipient name: . Recipient number: 7743948. Device name: Courier V Everything EXT PnP (V90-x2).			

Source	Event ID	Last Occurrence	Total Occurrences
❖ MS Exchange SA	9175	6/16/2002, 03:59 AM	54 *
The attempt to send the fax failed. There was no answer. This fax will not be sent, because the maximum number of retries has been exhausted. Sender: name: Billing code: password. Sender company: company. Sender dept: Department. Recipient name: . Recipient number: 7743948. Device name: Courier V Everything EXT PnP (V90-x2).			

**FIG. 44**

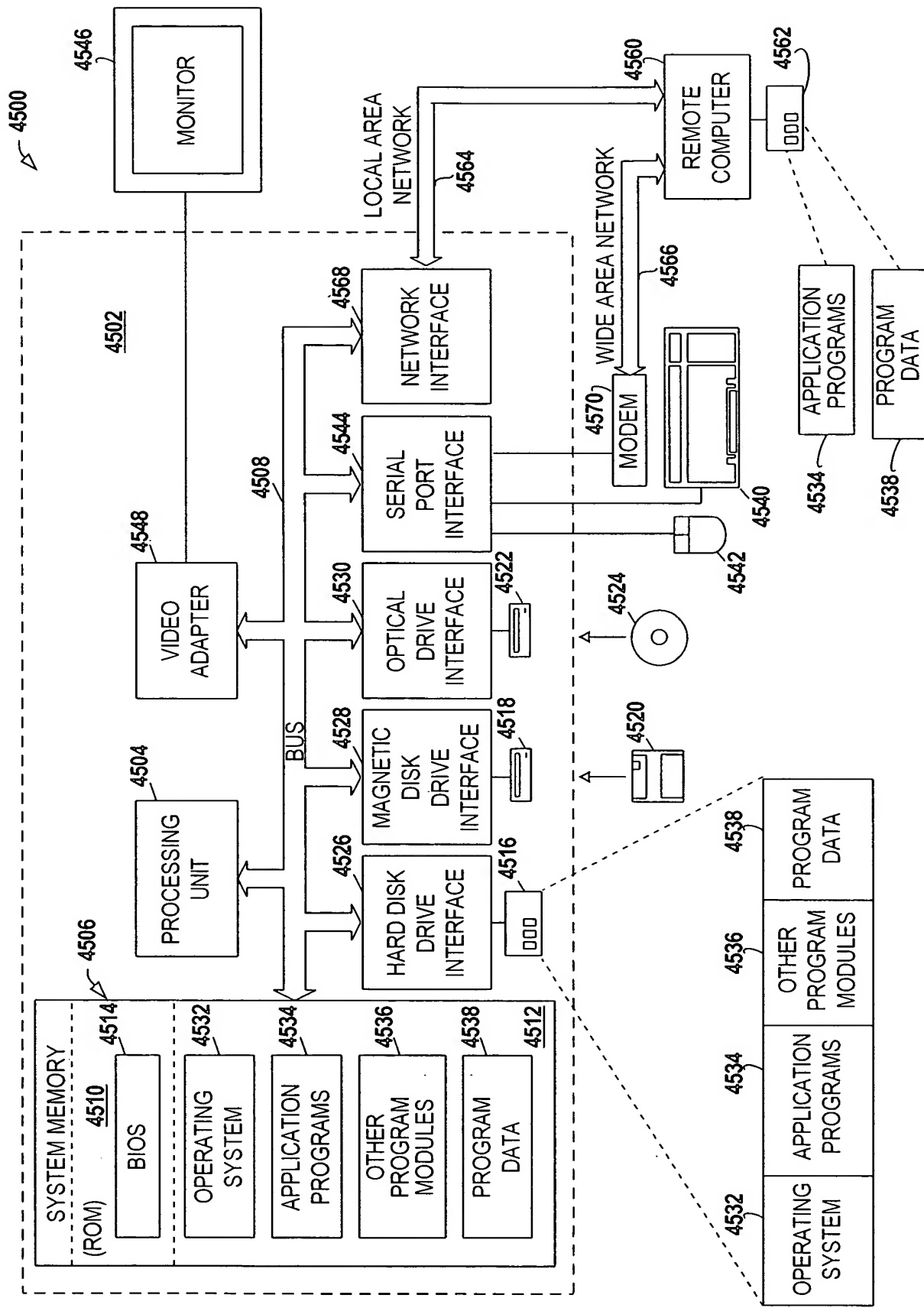


FIG. 45

4600 →

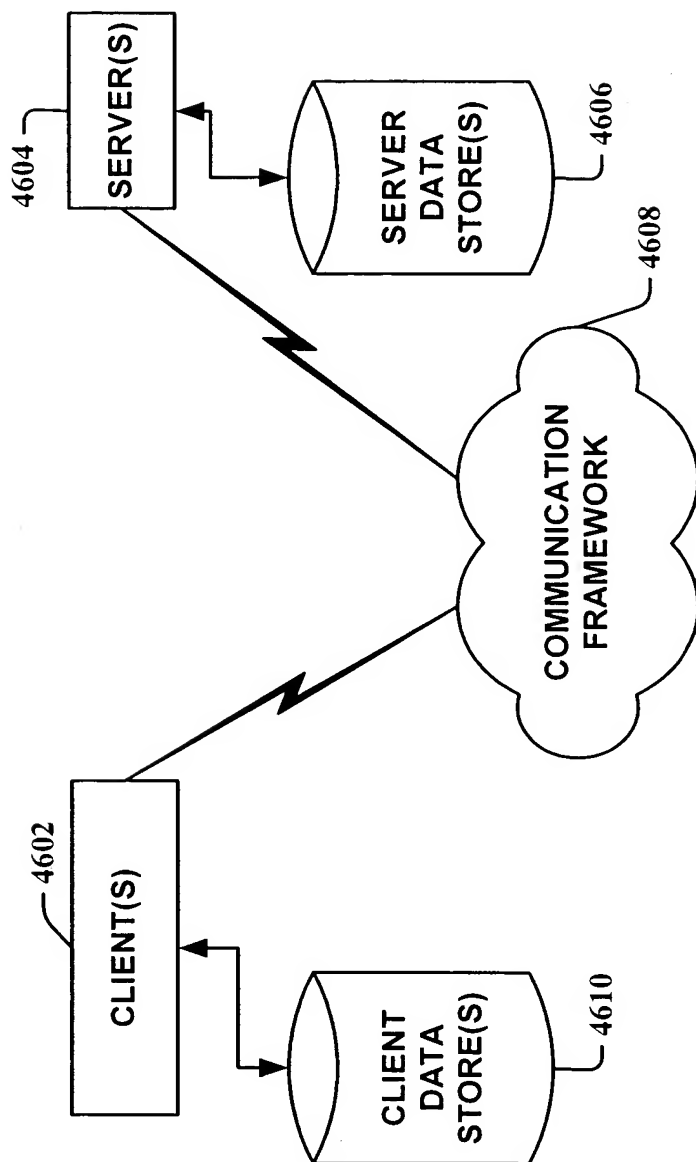


FIG. 46